

Industrial Internet Foundations: Proficy HMI SCADA - CIMPLICITY

Course Description

This short-form course will begin with your strengths – Proficy CIMPLICITY knowledge and experience - and expose you to the infrastructure required for advanced Industrial Internet visualization and analytics. Proficy CIMPLICITY-centric planning, provision and deployment strategies will be the core focus.

Along with lecture and demonstration, hands-on exploration and reinforcement are built into the activities.



Who should attend?

Senior engineering professionals who wish to learn how Proficy CIMPLICITY can be extended from the controls and automation layer to site and enterprise-wide applications using Industrial Internet infrastructure.

Are there any prerequisites?

Minimum three years of engineering experience developing and deploying automation solutions with Proficy CIMPLICITY. Proficy Historian experience is also recommended. Experience with GE's other Proficy solutions is an asset.

What topics will be covered in this course?

The following topics will be covered in this course:

- Proficy CIMPLICITY in the context of the Industrial Internet
- Scenarios and use cases
- Solution Architectures
- Infrastructure requirements
- Modeling and provisioning
- Visualization and analytics
- Security
- **Certification exam** for *Industrial Internet Designer: Proficy CIMPLICITY*. Exam includes extensive testing on Proficy CIMPLICITY and Proficy Historian acumen, as well as testing on Industrial Internet topics covered in the conference sessions.

Session Length

Approximately 5-6 hours

Suggested Session Size

Maximum of 20 students



Course Agenda

(Schedule and content may vary)

Session 1: Controls & Automation Layer

Description

An introduction to the technology, disciplines and data structuring that are required to prepare Proficy CIMPLICITY applications for integration with Industrial Internet infrastructure.

The focus is on working at the automation level to extend Proficy CIMPLICITY to new possibilities for data collection, classification and visualization.

Topics

- Proficy CIMPLICITY in the context of the Industrial Internet
- Scenarios and use cases

Session 2: Site Layer

Description

A deeper exploration that looks at wider applications with broader client audiences. This includes centralizing storage at the plant level and abstracting control and automation data for cross-functional consumption.

The focus is on working at the site level to share plant information and metrics using new asset and KPI data classifications along with browser-based interfaces.

Topics

- Architected solutions and infrastructure requirements
- Asset modeling and KPIs
- Cross-functional users
- Multi-platform and mobile visualization

Session 3: Centralized Layer - Industrial Internet

Description

An introduction to the Proficy infrastructure and technologies that take information with Proficy CIMPLICITY origins to audiences that never use or see Proficy CIMPLICITY. Discussion provides exposure to higher degrees of centralization, analysis and visualization via solutions such as Proficy CSense, Proficy Knowledge Center and Proficy Vision.

The focus is on extending Proficy CIMPLICITY to read-only applications and audiences that are removed from traditional automation and control scenarios.

Topics

- Architected solutions and infrastructure requirements
- Data aggregation, classification and Advanced analytics
- Web-based visualization
- Roles and security

*Notes

CEUs: For purposes of awarding Continuing Education Units, these sessions will be documented with a detailed syllabus and permanent transcript records.

Certification: The certification exam will be held at the conclusion of the session. A large portion of this exam will cover the Proficy CIMPLICITY knowledge and experience required in the prerequisites, with the rest to cover the topics in this session. Successfully passing this exam will result in a certification – **Industrial Internet Designer: Proficy CIMPLICITY**.

